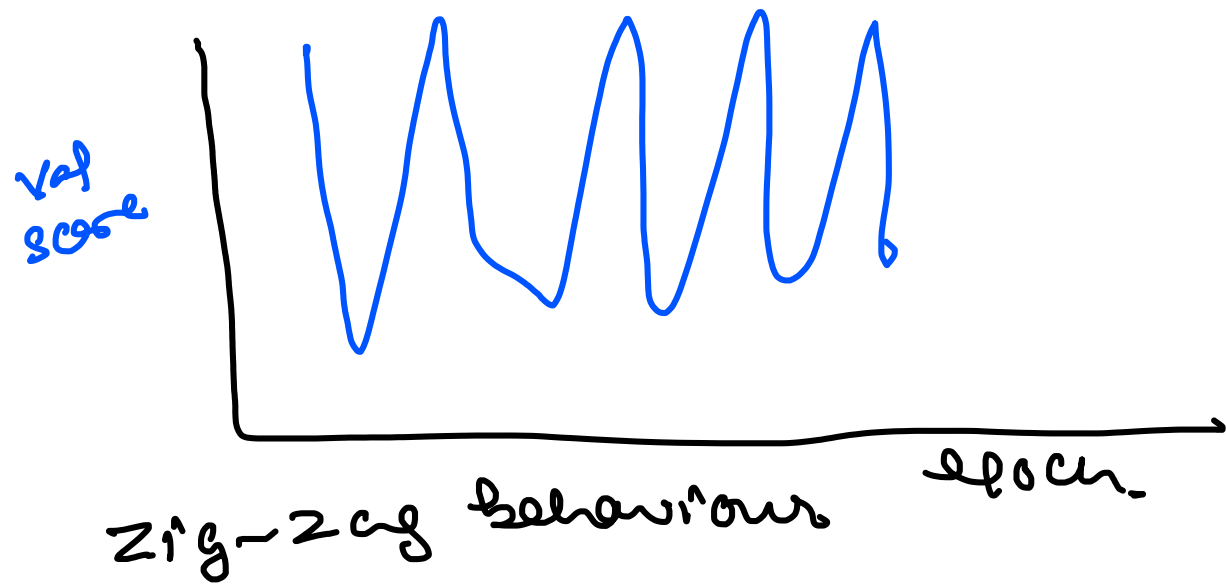


Data Scaling

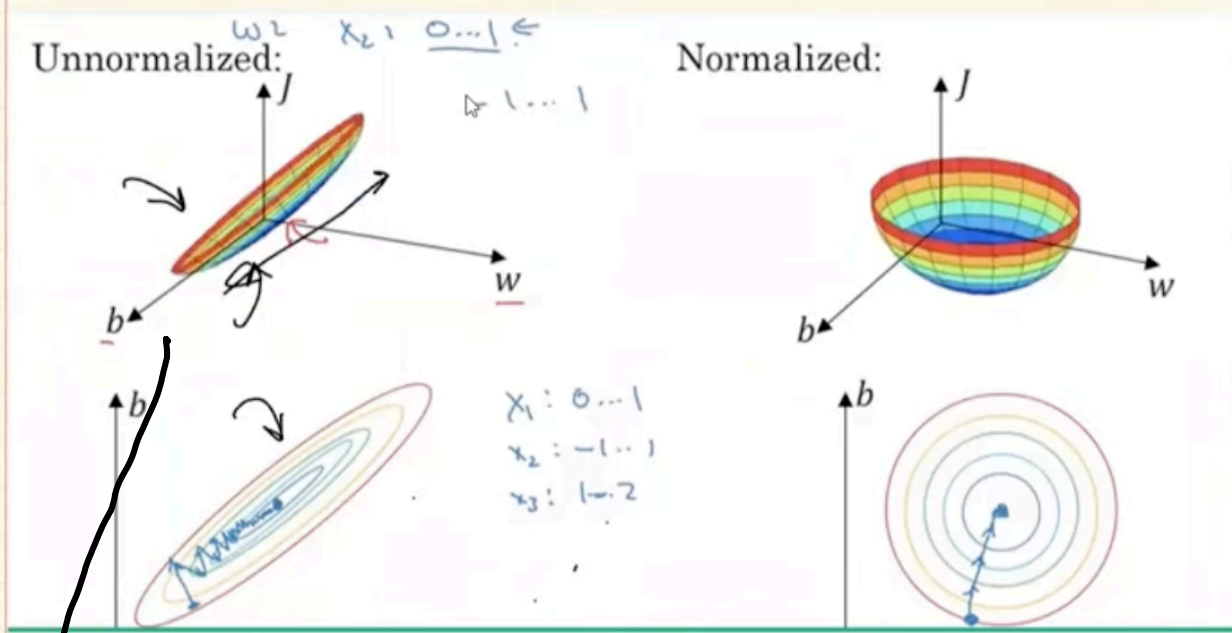


Case)

x_1 x_2 (category)
 w_1 w_2

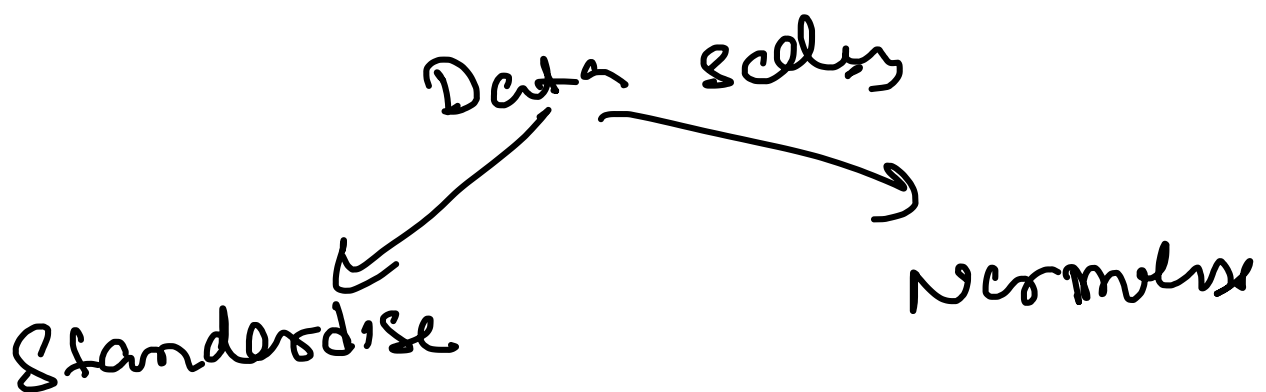
$$\omega_2 \approx \omega_2 - \eta \frac{\partial L}{\partial \omega_2}$$

During updation, all the
focus will on w_2 . due to
high value.



Unsymmetrical data, leading to zig zag behaviour.

↓
 Normalised input. Easy to traverse and find optimum solution

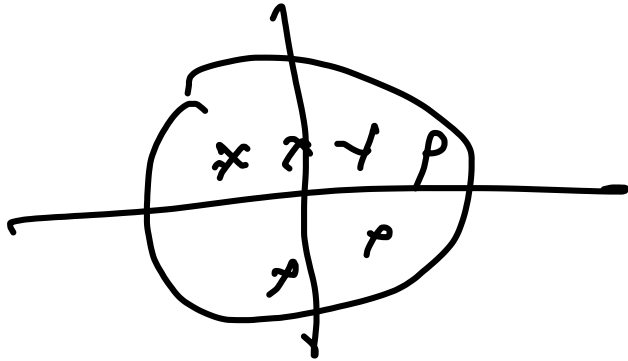


$$\frac{x_i - \mu}{\sigma}$$

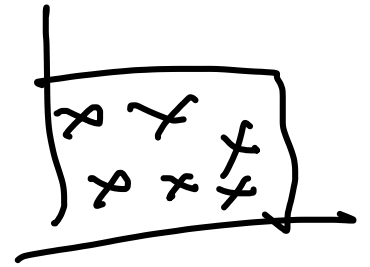
$$\frac{x_i - x_{min}}{x_{max} - x_{min}}$$

↓

mean 2000
and unit circle.



Being in
Unit Box



upper limit / lower limit
* when we know the min / max value
it is Normalised ones with
Standardise.